

Name: _____

at1124exam: Radicals and Squares (v808)

Question 1

Simplify the radical expressions.

$$\sqrt{18}$$

$$\sqrt{20}$$

$$\sqrt{63}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x - 7)^2}{4} - 8 = 17$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 12x = 85$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 + 24x + 75$$

Express the function in **vertex form** and identify the **location** of the vertex.